

State of Louisiana
Department of Transportation and Development (DOTD)
Materials and Testing Section Qualification Procedure
for

DRY-BATCHED PREPACKAGED SACKED CONCRETE REVETMENT

MATERIAL SPECIFICATION REFERENCE:

DOTD Standard Specifications, Supplemental Specifications and Special Provisions, Section 712 and Subsections 1001.01, 1003.02, and 1018.20 (copies attached).

PRELIMINARY REQUIREMENTS:

Approved Materials Evaluation Form

The manufacturer shall submit a standard "Approved Materials Evaluation Form" to the DOTD Materials and Testing Section Coordinator listed below, along with a letter requesting evaluation for the Approved Materials List.

General Information

Include all pertinent information relative to the material to be evaluated: including, but not limited to manufacturer's specifications, recommended installation and Safety Data Sheet (SDS).

Certification and/or Test Reports

None required for preliminary qualification. See PROJECT ACCEPTANCE REQUIREMENTS for Certificate of Compliance with each shipment to projects.

Sample (to be furnished at no cost to the Department)

Submit one unfilled sack and at least one sack of the prepackaged material along with a one gallon (4-Liters) sample of the cement used.

TEST REQUIREMENTS:

Laboratory Testing

Physical and Chemical tests will be performed on the cement sample for conformance with AASHTO M 85. Drop tests for filled bags shall be hand-dropped five times and in accordance with the applicable test methods of ASTM D 5276.

Tests for cement content and compressive strength will be conducted on the prepackaged material. The compressive strength will be determined on 6" x 12" (152 mm x 305 mm) cylinders. The content of the package shall be mixed with water as recommended by the manufacturer or to produce a slump of 2 to 5 inches (51 mm to 127 mm). The resulting compressive strength shall meet Class R conforming to Section 901. The unfilled sack will be visually evaluated for permeability, strength, method of tying or stitching the ends, and dimensions.

Field Evaluation

The Department may require a field evaluation to ensure satisfactory installation and performance of the material prior to placement on the Approved Materials List. The manufacturer will be notified in regards to the quantity of material needed and location of the installation. The manufacturer will not be responsible for placing the revetment; however, it would be to the manufacturer's benefit to have a representative present during the installation. Performance will be accepted based upon ease of installation, ability to sufficiently saturate material, and the durability of the material under field installation.

Evaluation Time

Laboratory testing - 2 months

Field evaluation - 6 months

GENERAL:

Upon completion of the evaluation, the submitter will be notified in writing concerning the results of the evaluation and whether the material will or will not be added to the Approved Materials List. The Department must be notified in writing of any change in material formulation. Significant changes may require reevaluation of the material.

PROJECT ACCEPTANCE REQUIREMENTS:

Inclusion of your product on the Approved Materials List is not blanket approval for its use.

All products, regardless of prior approval, shall be sampled in accordance with the Materials Sampling Manual.

DISQUALIFICATION:

Any material may be removed from the Approved Materials List for non-conformance with specifications for performance requirements. The Department must be notified in writing of any change in material formulation. Significant changes may require reevaluation of the material.

REQUALIFICATION:

A material which has been disqualified and removed from the Approved Materials List will be considered for reevaluation only after submission of a formal request along with acceptable evidence that the problems causing the disqualification have been resolved.

DOTD MATERIALS AND TESTING SECTION COORDINATOR

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